



Docket No.: 100745-7/Miura 214-KGB

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO. : 10/009,627
APPLICANT : Isamu UEMASU et al
FILED : October 26, 2001
FOR : Method and Equipment for Continuous and Selective
Inclusion Separation
ART UNIT : 1623
EXAMINER : Devesh Khare

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Hon. Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

SIR:

Pursuant to 37 CFR §§ 1.56, 1.97 and 1.98, Applicants respectfully request that the Examiner consider the references listed on the attached Form PTO-1449.

I. Timeliness, Fees and Certifications in lieu of Fees

This information disclosure statement is being filed within three months of the filing date of the application, or within three months of entry into the national stage, or before the mailing of a first Office Action on the merits. Pursuant to 37 CFR § 1.97(b), consideration of this information disclosure statement does not require a fee or a statement under 37 CFR § 1.97(e). However, should the Assistant Commissioner determine that a fee is, in fact, due, the Assistant Commissioner is hereby authorized to charge the fee to Deposit Account No. 14-1263.

II. Copies of Listed References

Copies of all references listed on the attached Form PTO-1449 are being supplied.

III. Concise Statement of Relevance

Katsutoshi Nagai and Hans-Georg Elias; "Polymerization of Micellized 1-O-3-(4-vinylphenyl)propyl- β -D-glucopyranose"; Markromol. Chem. 188, 1095-1127 (1987)

This reference relates to polymerization of micellized 1-O-3-(4-vinylphenyl)propyl- β -D-glucopyranose as an amphiphile, and is therefore utterly irrelevant to the present invention. Micelles are broken down by stirring due to shear effects thereof as is apparent from the description on page 1099, lines 14-12 from the bottom. In this respect, micelles are different from any inclusion complexes, which are never broken down, or dissociated, by stirring.

Jian Wang and Islah M. Warner; "Chiral Separations Using micellar Electrokinetic Capillary Chromatography and a Polymerized Chiral Micelle"; Anal. Chem. 1994, 66, 3773-3776

This reference relates to micellar electrokinetic capillary chromatography as a kind of analytical capillary electrophoresis for the measurement of the optical purity of drugs and other racemic compounds, and is therefore utterly irrelevant to the present invention.

Daniel W. Armstrong and Heng L. Jin; "Enrichment of Enantiomers and Other Isomers with Aqueous Liquid Membranes Containing Cyclodextrin Carriers" Anal. Chem. 1987, 59, 2237-2241

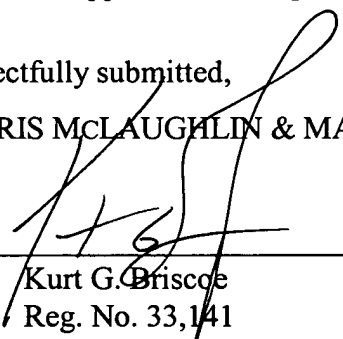
This reference relates to enrichment of enantiomers and other isomers with aqueous liquid membranes containing cyclodextrin carriers as shown in Figure 2 on page 2239, left column. Two types of chambers were used to form liquid membranes. The first type consisted

of two identical glass chambers used to form liquid membranes. The first type consisted of two identical glass chambers sealed together against an O-ring and a paper support as shown in Figure 1A on page 2238, right column. The paper support was impregnated with a cyclodextrin solution by dipping filter paper in the cyclodextrin solution to form a very thin liquid membrane. This is different in function from a diaphragm for use in the present invention. The second type consisted of a capillary tube as shown in Figure 1B on page 2238, right column. The very thin liquid membrane is believed to be formed by surface tension of an aqueous cyclodextrin solution. In any case, *Enrichment of Enantiomers and Other Isomers with Aqueous Liquid Membranes Containing Cyclodextrin Carriers* discloses only embodiments wherein the very thin liquid membrane was used, and which may be enough for experiments but lacks an industrial applicability to large-scale separation unlike the present invention.

Consideration of the foregoing in relation to this application is respectfully requested.

Respectfully submitted,
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By


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CERTIFICATE OF MAILING

I hereby certify that the foregoing Information Disclosure Statement and Form PTO-1449 (1 Sheet), and three (3) references are being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450, on the date indicated below:

Date:

8-5-03

By


Kurt G. Briscoe